

GILA RIVER BASIN

09504800 OAK CREEK TRIBUTARY NEAR CORNVILLE, AZ

LOCATION.--Lat 34°42'45", long 111°52'50", in NW¹/₄ sec.12, T.15 N., R.4 E., Yavapai County, Hydrologic Unit 15060202, at county road, 2.5 mi east of Cornville.

DRAINAGE AREA.--0.048 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1963	09-09-63	19		1971	09-29-71	1.0	LT
1964	07-26-64	47		1972	00-00-72	0.6	LT
1965	08-00-65	3.0	ES	1973	10-07-72	5.0	
1966	00-00-66	0		1974	08-00-74	1.0	LT
1967	08-00-67	18		1975	11-02-74	1.0	ES
1968	00-00-68	1.0	LT	1976	00-00-76	3.7	
1969	08-08-69	53		1980	02-14-80	¹ 24	HP
1970	09-05-70	47					

¹Highest since 1970.

Magnitude and probability of instantaneous peak flow based on period of record 1963-76, 1980

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50†	100†
50%	20%	10%	4%	2%	1%
4.1	25.9	61.7	144	240	369
Weighted skew	(logs) =	-0.48			
Mean	(logs) =	0.52			
Standard dev.	(logs) =	1.04			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
65.0	0.41	3,570	0.0	1.0	12.4	1.7	4.0

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